

EXHIBIT A
TO
AGREEMENT FOR PROFESSIONAL SERVICES
STATEMENT OF WORK

PLANNING AND MIGRATION SERVICES

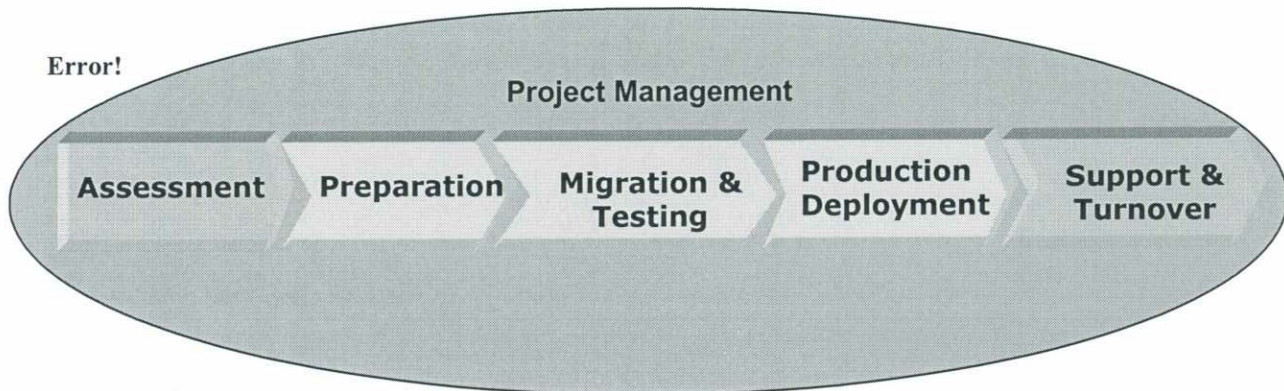
The Software AG Project Manager is our key representative on the project and is responsible for planning and successfully executing all Software AG-controlled aspects of the project implementation. Our Project Manager will report directly to the State's Project Coordinator and will work closely with the State's team to ensure that the project is carried out expeditiously and that Software AG's resources are being used effectively. Our Project Manager has the full backing of Software AG's Technical Services organization.

The Project Manager will focus on open communication and regular evaluation of project activities and requirements with an eye toward anticipating and elevating for appropriate consideration any activities that will adversely impact the project scope or schedule.

Project Managers primary tasks include:

- Project planning, scheduling, estimating and progress tracking via Microsoft Project.
- Change control procedures.
- Determining appropriate communication channels including escalation procedures.
- Scheduling and conducting project meetings to address issues, record progress and set goals.
- Preparing project reports.
- Assigning and monitoring tasks.
- Assigning and managing resources including addressing resource issues and concerns.
- Acting as the liaison with clients, management and other internal departments.

Phases of a Migration Project



Software AG's Migration Solution is based on 5 primary phases with a proven project management methodology used during the complete project life-cycle, including requirements definition, application design, development, testing, quality assurance, data conversion, documentation, change management, risk mitigation, and training. Each phase of the solution has specific deliverables, which will be provided to the State as part of the overall migration solution. In the following sections we outline in detail how each of the phases achieves the defined objectives and provides the desired results, culminating in a completed migration. By using a phased methodology, Software AG is able to use deliverable milestones as checkpoints with ITD to ensure the migration efforts meet the needs and requirements of the State.

PHASE I - TECHNICAL ASSESSMENT, DETAILED IMPLEMENTATION PLAN, RETURN ON INVESTMENT ANALYSIS

One of the most critical phases of the migration project will be the detailed Technical Assessment of the applications to be migrated and the development of the Detailed Implementation Plan. Based on the preliminary assessment and Proof-of-concept performed with ITD, we propose a more detailed analysis to create a complete Technical Analysis and Detailed Implementation Plan using automated tools which Software AG will provide. The analysis will serve to further define the individual applications and validate assumptions regarding the applications as reviewed in earlier preliminary assessments. Software AG will also conduct a Return on Investment (ROI) Analysis and produce an ROI Analysis report projecting the State's overall investment and resultant cost savings in support of Phase 2 Implementation.

In addition to those items identified in the migration methodology earlier, a few of the specifics of the Technical Analysis and Detailed Implementation Plan will include items such as:

- Identification of the Operating System and Software AG products versions.
- Inventory of the Natural applications to be migrated.
- Analysis of code for migration anomalies or issues.
- Inventory of the data to be migrated
- Calculation of disk space requirements on the Mainframe for data unloads
- Calculation of disk space requirements on the target platform for data loading into the target DB
- Collection of detailed workload information for the current systems
- Consideration of some level of enhancement or customization with a port for the individual applications, depending on their unique requirements for the near-term future.
- Address as many technical issues as possible (using this document as a guide for identifying the issues).
- Definition of the batch strategy.
- Analysis of batch work in detail to determine how best to rewrite the JCL and to deal with technical issues in the differences between the mainframe and the target platforms.
- Since some batch jobs read sequential files on the mainframe, determination of whether any of these files need to be migrated and how to accomplish that in the context of the application.

Documentation Review

In order to provide a useful analysis of the migration effort, the Software AG team will need to become thoroughly familiar with the State's applications. The State will need to provide the project team with access to any application documentation and all application source code (including JCL) and databases that will be ported.

Code Analysis

Software AG will analyze the Natural and Cobol source code using Natural Engineer (NEE). The NEE tool will analyze source code for statements that contain syntax that may be impacted by a migration of the code to Unix. The results of the report will then be analyzed to determine the extent to which application code may have to be modified to maintain existing functionality without impact from platform migration.

In particular, some of the impacts are caused by the operating system, not application code itself. For example, moving from an EBCDIC-based mainframe to an ASCII-based UNIX environment can cause reports and browse-type screens to sort differently (the sort order is different between the character sets in that numbers precede letters in one and not the other).

The use of the NEE tool in a migration project will be largely transparent to the State, however the time and effort that would have been required by ITD to provide us information during the analysis phase will be significantly reduced. Additionally, using an automated analysis will help reduce the risk by ensuring that no required changes are missed during the conversion and porting process, thereby reducing potential for 'test and fix' that could otherwise occur during testing.

Application Reviews

In addition to a review of documentation and code analysis, the project team will conduct a series of application reviews with key technical and customer staff to obtain an overall picture of the operating posture of the State applications. In essence, these facilitated sessions will be requirements definition workshops focused on exposing any requirements that relate to the operating system, user interface, or hardware. Specific areas that we will focus on are:

- System performance requirements including:
 - Total number of online users
 - Number of concurrent online users
 - Transaction Processing (TP) Monitor average volumes and peak volumes
 - Batch volumes and peak volume requirements
- Printing requirements:
 - Special form usage
 - Online printing
 - High volume printing
- Batch Processing Requirements:
 - Use of Generation Data Groups (GDG's)
 - Awareness of any complex conditional JCL step processing requirements
 - Establish whether JCL steps exist which do not perform NATURAL processing, for example, IBM utility to concatenate a number of separate files in a single file
 - Document whether any batch JCL is submitted through use of the NATRJE (online) utility
 - Check JCL for SORT utilities and highlight any that will require changes to cater for differences in the EBCDIC to ASCII conversion
 - Document current batch scheduling procedures and 'on request' submission of respective batch jobs
 - Prepare a report of general documentation detailing name and purpose of batch job
 - Document batch JCL jobs that currently check JCL for parameter (or other) input requirements that would require amendment on daily / monthly basis.
 - Check documentation for batch update job's restart capabilities

- List any other potential problems found in JCL not covered in previous action items
- Document batch JCL jobs that currently read/write tape data set volumes or require any other form of operator intervention
- User Interface Design -
 - Terminal emulation capabilities in UNIX
- Integration requirements
 - Points of integration between applications being migrated and others which will be replaced in the future
 - Systems or other tools currently used for FTP and other direct connections and how this will be effected with migrated applications
 - Integration with 3rd party software tools
- Ancillary System Identification
 - Identification of applications that may not be practical to migrate, issues identified related to those applications, and alternatives to consider
- Document application security requirements
 - NATURAL security
 - Application level security
 - TP Monitor / Operating system level

Prepare a Detailed Implementation Plan

The completed technical assessment will provide the basis from which the Project Manager can begin to plan for the migration, which will include all tasks, activities, and milestones envisioned for the migration. The Project Manager will establish the high level schedule to organize the tasks that are necessary for implementation. Each task will consist of sub-tasks and each task/sub-task will be broken into activities and each activity will produce a deliverable/result. The deliverables produced by the tasks and activities will be combined into milestones.

The project schedule provides a graphical depiction of the effort required. Resources, roles, and responsibilities must be determined, resulting in a team organizational chart and a responsibility chart. Resource requirements, other than human, must also be determined and documented. This includes training, data, documentation, software, and hardware.

Staffing is input into the schedule to determine where parallel activities can occur to shorten the overall timeline and where dependencies are required to ensure the methodology is followed and quality is achieved. Software AG's experience with software migrations has provided a diverse pool from which to draw on for qualified staff. The small contingent involved with the Project Manager during the planning phase will be able to identify candidates for the project that best match the project needs.

Every project has an organizational chart, whether it is a simple Project Manager-consultant relationship, or one that is more complex. The organizational chart provides the foundation for a communication plan. The communication plan will define who is involved with the periodic status meetings to ensure all parties are aware of project progress, which includes but is not limited to, ITD Staff and ITD Customers.

To cover a crisis event, an escalation plan will be put in place. An escalation plan will identify key resources for issue resolution and a 'leap-frog' process for bypassing normal communication chains for quicker turnaround.

Budget for the project can then be computed by extracting the amount and duration of staff required as well as any software/hardware costs.

A critical path can be identified from the initial schedule from which a risk assessment and initial issue review can be completed. At the planning phase of project management, the project implementation has not yet been approved for execution. Planning provides a basis for the potential client to understand the vendor's approach and justification for the estimates provided. It is the planning phase that is critical in enabling clients to make an educated decision on whether to have the project move forward.

Deliverables from the planning phase include a high level schedule, a detailed implementation plan, any identified risks and issues, and return on investment analysis.

Software AG will provide a plan with a description of the technical environment for the UNIX platform. The plan will provide detailed information in the following areas:

- *User Interface:* Software AG will identify the State requirements for the user interface features on the UNIX platform.
- *Processing Environment:* Software AG will describe the operating system, version, and utilities.
- *Server Environment:* Software AG will describe the server environment, including CPUs, disk, memory requirements and any other storage media.

- *Output Devices:* Software AG will identify the primary output devices, such as printers, tapes, and optical media.
- *Communications Protocols, Connectivity, and Hardware Placement:* Software AG will identify the communications protocols, connectivity and hardware placement.
- *Commercial Off-the-Shelf (COTS) Software:* Software AG will identify any COTS software or tools that would need to be licensed.
- *Database:* Software AG will identify the ADABAS version needed.
- *Programming Languages:* Software AG will identify Natural language version and any other languages and versions as needed.
- *Security:* Software AG will describe the security aspects.
- *Job Entry:* Software AG will describe the means for executing the job entry that will be used to replace existing JCL batch operations.
- *Key User Interface Issues:* Software AG will identify and describe the user interfaces that will be implemented.
- *Anticipated Technical Obstacles:* Software AG will describe technical difficulties that might be encountered and potential solutions or safeguards that could be used to solve or mitigate such difficulties.
- *Comprehensive list of 3rd Party Products and Pricing:* Software AG will identify all 3rd party products required and recommended to complete the migration phase. Software AG will provide cost estimates and a "source of supply" proposal to supply those products.

Software AG will be working with the State throughout the development of the Technical Assessment and Detailed Implementation Plan; however, a number of key decisions will need to be made by the State prior to the completion of the plan. These decisions include, to date:

- Application Life Cycle - Librarian is used today and would move to Clearcase on Open System.
- Batch Scheduling Management - JCL converted to Scripts for use with a scheduler which will be implemented before JCL migration is started to ensure naming conventions and standards as required by job scheduler will be followed.
- COBOL -
 - Batch - would be run using MF Cobol and partners' tools
 - Online – We are suggesting the use of MF MTO (Mainframe Transaction Option).
- Print Management - AFP is used extensively with applications. It will be assumed that a print management package will be provided by the State and all required Mainframe printers would be migrated to the new Unix system.

- Syncsort will be used with MVS to Unix Sort Conversion option and use of FilePort will be considered.
- DB/2 and Oracle support will be resolved as part of the overall project plan.
- VSAM usage will be changed as required to support sequential files on Unix system.
- GDG will be implemented via Scripts.
- System Console Message process will be resolved as part of the overall project plan.

Conduct a Return on Investment Analysis

Using the information gathered in the Detailed Implementation Plan, including Software AG products and migration services as well as third-party products and solutions necessary to complete the migration, Software AG will produce an ROI analysis report for the State. The ROI report will include an analysis of the initial investment to complete the migration plus the anticipated ongoing costs for hardware and software maintenance and technical support. The State will provide the necessary information regarding internal costs to assist Software AG in producing the ROI analysis. The State will review and validate the assumptions and results.

The analysis should include but not be limited to:

- Ongoing hardware, software and staffing costs to support the new environment.
- Ongoing hardware, software and staffing costs to support applications which will remain on the existing environment.
- For each application remaining on the existing environment the timeframe for replacement.
- Difference in ongoing cost between the existing environment and ongoing cost of the new environment plus the ongoing cost of the reduced existing environment for at least the next 10 years.
- Investment required to implement the new environment and migrate applications to it, including software, hardware, contracted assistance, agency and ITD training costs, ITD and agency staff costs.
- Timeframes should be assigned to costs and interest rates for borrowing should be factored into the analysis.
- Assumptions, risks and alternatives should be documented.
- The scope of the effort and the reliance on successful completion of related projects should be noted.
- Where possible, revenue and cost projections by agency and/or application should be performed.

MIGRATION SERVICES PROJECT PLAN

The Preparation, Migration and Testing, Production Deployment, and Support and Turnover phases and final project wrap-up will be fully documented in the implementation plan delivered in the Technical Assessment. Based on our experience with other customers on migration and our preliminary assessments in your environment, we have compiled an estimated work schedule and effort for the total project using an iterative process for groups of selected applications to move through these phases. This will be revisited upon completion of the implementation plan to ensure we are still within the estimated cost and schedule of the project. The State has shared with Software AG a desire to complete the migration within an 18-month window for applications identified in the attached Appendix A. This currently appears to be within our plan, as shared in the proposal.

Execution of a project requires strict tracking of the progress against a defined schedule and budget. However, it is noted that at project initiation, the schedule and budget in place are those that were identified during the planning phase. As accurate as the schedule and budget may be, there is always room for improvement. Therefore, during initial project phases such as requirements gathering and solution design, the Project Manager will iteratively re-evaluate the schedule and budget.

Re-evaluation includes adding detail to the high-level schedule and refining projections of end-date and final cost, if impacted. Along with that, additional review sessions with key personnel will be identified to ensure the communication channels are accomplished. The Project Manager will be better able to track the progress of a project if the schedule is more detailed with low-level tasks, milestones, and dependencies.

As more detail is added to the schedule, the critical path must be reviewed carefully for impact to the end-date of the project. Adding detail to the schedule does not necessarily imply adding scope. The tracking phase of project management is focused on monitoring the project, including the scope of the project, from a budget and schedule perspective.

Although the percentage completion reports indicating plan vs. actual for budget and schedule provide a good measure for how the project is progressing, it is the responsibility of the Project Manager to also be aware of issues that may impact the project and assess risks. Issues and risks are communicated through the communication channel, and through the escalation channel if critical, to ensure awareness of all parties involved with the project. Periodic project reports document all tracking items including risks and issues and provide a consistent communication with the client regarding the progress of the project.

To enable success, we will require broad participation in status meetings and distribute status reports to all team members. Status reports will be prepared and will indicate recent accomplishments, upcoming tasks, milestones, open issues, and assigned action items.

Status reports are the documents by which progress is reported and metrics are captured for use in future Software AG project planning phases. The status report is rich in project information. For long-term projects, reports are regularly produced to capture accomplishments, next steps/milestones, actual vs. plan on budget, actual vs. plan on schedule, issues/risks, and any assistance that is required by the project team.

It is anticipated that status meetings will occur weekly with the State Project Coordinator. Additional team meetings will occur as needed. All scheduled meetings will include a published agenda that participants can review and use to prepare for the meeting.

Minutes for each meeting will be taken and circulated among the project team. The minutes will include the time, date and location of each meeting or conference call as well as issues discussed and action items assigned.

With regard to issue management, an issue is defined as a problem or question that may impede project progress when resolution is pending, but not achieved. Issues may occur during the project in one of two ways. First, when a risk mitigation plan is not able to prevent the risk from impacting the project, the risk becomes an issue and must be tracked as such until resolution. The second is when an unusual obstacle is encountered that was not identified during risk analysis. Issues should be anticipated, and when they are encountered they must be resolved. The Project Manager has the responsibility of tracking an issue to its resolution.

At the completion of a project, the Project Manager is responsible for closure activities. Closure activities include a final project review with the State Project Coordinator to ensure all success criteria identified in the Technical Assessment have been met along with acceptance of all deliverables.

FIXED PRICE DELIVERABLES

The Technical Assessment and Detailed Implementation Plan will be delivered in accordance with the high-level schedule found in the Schedule and Price sections and as outlined below. An updated project schedule will be developed upon completion of the Technical Assessment and Detailed Implementation Plan from which an updated deliverables document will be provided for Phase 2-5 as well as the project wrap-up and turnover.

Weekly status reports covering the prior weeks' activities will be delivered by the close of the first business day of each week. All deliverables including the weekly status report will be accepted according to the Acceptance Process detailed in this section, unless noted.

Deliverable Phase 1	Acceptance Criteria
Weekly Status Report	Acceptance Process
Technical Assessment and Detailed Implementation Plan	Acceptance Process
Return on Investment Analysis Report	Acceptance Process

Acceptance Process

Once a deliverable has been completed, Software AG will provide the State project representative with a "Deliverable Receipt/Acceptance Form" for deliverable receipt signature. The State will have five (5) business days from the delivery date on the "Deliverable Receipt/Acceptance Form" to review and accept the project deliverable (other than those deliverables marked "Accepted Upon Delivery" above). The State shall notify Software AG, in writing, not more than five (5) business days after receipt of a "Deliverable Receipt/Acceptance Form", if there are issues, identifying each issue relating to non-acceptance in sufficient detail to provide Software AG with sufficient information to correct the issue(s). Upon expiration of the five (5) business days without identification of issue(s), the deliverable shall be deemed accepted with or without an acceptance signature. Should Software AG receive written notification from the State identifying issues relating to non-acceptance within the stated five (5) business days, Software AG will either mutually address or resolve the issues identified and provide a new mutually agreed upon "Deliverable Receipt/Acceptance Form". The State will then have five (5) business days to re-review the previously identified issues and accept the project deliverable. Upon expiration of the five (5) business days without Software AG receipt of written identification of continued issue(s), the deliverable shall be deemed accepted with or without an acceptance signature.

ASSUMPTIONS

The following assumptions will be applied. If any assumption is found to be invalid during analysis phase of the project it could affect the overall implementation plan. Any critical changes will be presented to the State for approval prior to continuing with the migration project.

Project Specific Assumptions

- Delivery timeframe window is approximately 18 months for the entire migration project scope.
- Software AG, working with the State, will develop a detailed project and implementation plan as the first task of the project. The plan will verify the migration project remains within the 18-month window for the price previously quoted.
- The Fixed Price Deliverables identified as part of the Migration Phases, outside of Phase 1, are subject to change per the Technical Assessment and Detailed Implementation Plan. The Detailed Implementation Plan will identify the specific deliverables and iterations for those deliverables along with acceptance criteria and invoicing points.
- The testing methodology and roles and responsibilities for who will handle testing will be defined in detail as part of the Detailed Implementation Plan.
- A definitive and final list of applications to be migrated will be produced in the Technical Assessment and Detailed Implementation Plan.
- The applications to be migrated will be from the production environment using a phased implementation to ensure modifications to applications are not required during the migration.
- A bulk of the migration tasks can be performed by Software AG resources off-site using remote access to the environment located at the State, with a coordination and delivery team being on-site.
- Software AG and the State will consider additional efficiencies that can be gained by using the features of the new platform, as long as these considerations do not negatively affect the project's critical path.
- The State will provide one full time dedicated Project Coordinator empowered to accept deliverables, facilitate project requirements with ITD and ITD Customers, and make commitments on behalf of the State regarding availability of State personnel for the project.
- The State will play an integral part in the following phases: End User Testing, Hardware and operating system installation and configuration, Support Software installation and configuration.
- ITD staff will assist in defining and documenting application interfaces to non-Software AG products during the detailed analysis to be completed in Phase 1.
- The State will be responsible for debugging of business application programs if errors are found during the migration.

- Software AG will be provided all relevant documentation in a timely manner.
- The State will remain responsible for end-user training on the migrated platform. Software AG will provide training materials and training to the ITD staff for use in this task.

Technical Specific Assumptions

- The mainframe environment can accommodate the space requirements of NEE for the code analysis.
- The target environment is a Linux RedHat or another Unix OS as defined by the State prior to the completion of the Technical Assessment and Detailed Implementation Plan.
- The State is responsible for all required supporting and Unix OS software. This includes items such as, Microfocus, MigrationWare, Linux v2.1 / V3.0, Source Control Change Management, Print and Tape Control Software.
- Any application that is not included in the migration plan does not have a dependency on Adabas files migrated by Software AG.
- Software AG will provide the State with an Enterprise Agreement, which includes mainframe technical support and the required Software AG products for Unix, including Single Point of Development for support of ITD developers, during the 18 month migration period and beyond.
- The State will provide appropriate hardware and server environments (Development, Test and Production) and offsite network connectivity.
- Software AG will provide key mapping for one Terminal Emulation package as defined by the State. The State will then be responsible for key mapping to other Terminal Emulation packages that may be required by ITD Customers.
- Software AG will have access to utilities for the movement of data including required disk space for decompression of the largest Adabas file.
- Any User Exits will be reviewed as part of the detailed assessment and ITD staff will assist in defining resolutions for the migration phase.
- State Decision Points:
 - Application Life Cycle - Librarian is used today and would move to Clearcase on Open System.
 - Batch Scheduling Management - JCL is converted to Scripts for use with a scheduler that will be implemented before JCL migration is started to ensure naming conventions and standards, as required by job scheduler, will be followed.
 - COBOL -
 - Batch - would be run using MF Cobol and partners' tools.
 - Online – Software AG will suggest the State use MF MTO (Mainframe Transaction Option).

- Print Management - AFP is used extensively with applications. It will be assumed that a print management package will be provided by the State and all required Mainframe printers would be migrated to the new Unix system.
- Syncsort will be used with MVS to Unix Sort Conversion option and use of FilePort will be considered.
- DB/2 and Oracle support will be resolved as part of the overall project plan.
- VSAM usage will be changed as required to support sequential files on Unix system.
- GDG will be implemented via Scripts.
- System Console Message process will be resolved as part of the overall project plan.

SCHEDULE

Phase 1 Technical Assessment and Detailed Implementation Plan:

Task Name	Duration	Start	Finish
Project Management	60 days	Tue 7/5/05	Tue 9/27/05
Project Initiation	6.5 days	Tue 7/5/05	Wed 7/13/05
Set up access at customer's site	1 day	Wed 7/6/05	Wed 7/6/05
Schedule finalized	1 day	Fri 7/8/05	Fri 7/8/05
Communication plan	0.5 days	Wed 7/13/05	Wed 7/13/05
Contacts List	0.5 days	Tue 7/12/05	Tue 7/12/05
RACI	0.5 days	Mon 7/11/05	Mon 7/11/05
Customer Kick-off	1.21 days	Tue 7/5/05	Wed 7/6/05
Kickoff Meeting Prep	1 day	Tue 7/5/05	Tue 7/5/05
Kickoff meeting	0.21 days	Wed 7/6/05	Wed 7/6/05
Status Reporting	55 days	Tue 7/12/05	Tue 9/27/05
Customer Status reports	55 days	Tue 7/12/05	Tue 9/27/05
Customer Status reports 1	1 day	Tue 7/12/05	Tue 7/12/05
Customer Status reports 2	1 day	Tue 7/19/05	Tue 7/19/05
Customer Status reports 3	1 day	Tue 7/26/05	Tue 7/26/05
Customer Status reports 4	1 day	Tue 8/2/05	Tue 8/2/05
Customer Status reports 5	1 day	Tue 8/9/05	Tue 8/9/05
Customer Status reports 6	1 day	Tue 8/16/05	Tue 8/16/05
Customer Status reports 7	1 day	Tue 8/23/05	Tue 8/23/05
Customer Status reports 8	1 day	Tue 8/30/05	Tue 8/30/05
Customer Status reports 9	1 day	Tue 9/6/05	Tue 9/6/05
Customer Status reports 10	1 day	Tue 9/13/05	Tue 9/13/05
Customer Status reports 11	1 day	Tue 9/20/05	Tue 9/20/05
Customer Status reports 12	1 day	Tue 9/27/05	Tue 9/27/05
Status updates (risk, issues)	50 days	Tue 7/19/05	Tue 9/27/05
Status updates (risk, issues) 1	1 day	Tue 7/19/05	Tue 7/19/05
Status updates (risk, issues) 2	1 day	Tue 8/2/05	Tue 8/2/05
Status updates (risk, issues) 3	1 day	Tue 8/16/05	Tue 8/16/05
Status updates (risk, issues) 4	1 day	Tue 8/23/05	Tue 8/23/05
Status updates (risk, issues) 5	1 day	Tue 9/6/05	Tue 9/6/05
Status updates (risk, issues) 6	1 day	Tue 9/20/05	Tue 9/20/05
Status updates (risk, issues) 7	1 day	Tue 9/27/05	Tue 9/27/05
Phase 1 Assessment	51.62 days?	Wed 7/6/05	Fri 9/16/05
Develop Environment Architecture, Installation and Testing Plan	33 days	Mon 7/11/05	Wed 8/24/05
Inventory of Natural applications to be migrated	15 days	Mon 7/11/05	Fri 7/29/05
Inventory of Non-Natural applications to be migrated	9 days	Mon 7/11/05	Thu 7/21/05
Inventory of data to be migrated	10 days	Fri 7/22/05	Thu 8/4/05
Hardware Requirements	3 days	Mon 8/1/05	Wed 8/3/05
Software Requirements	4 days	Mon 8/1/05	Thu 8/4/05
Software Installation Procedures	3 days	Thu 8/4/05	Mon 8/8/05
Identify shared Adabas files and VSAM files	3 days	Tue 8/9/05	Thu 8/11/05
Define Operating System Architecture	4 days	Fri 8/12/05	Wed 8/17/05
Define Application Testing Process/Procedures	5 days	Thu 8/18/05	Wed 8/24/05

Task Name	Duration	Start	Finish
Environment Verification	45 days	Wed 7/6/05	Wed 9/7/05
Define Mainframe Migration Environment	5 days	Fri 8/12/05	Thu 8/18/05
ID external routines to rewrite	10 days	Fri 8/19/05	Thu 9/1/05
Catalog Mainframe libraries	5 days	Tue 8/9/05	Mon 8/15/05
Plan migration of all user names and passwords w/ State	2 days	Thu 8/25/05	Fri 8/26/05
Define Operating System Standards	5 days	Tue 8/16/05	Mon 8/22/05
Gather detailed workload information on current system	13 days	Wed 7/6/05	Fri 7/22/05
Definition of AFP Print replacement strategy	8 days	Fri 8/19/05	Tue 8/30/05
Definition of batch strategy	3 days	Fri 9/2/05	Wed 9/7/05
Define data Migration Process	4 days	Fri 8/26/05	Wed 8/31/05
Define framework for file unloads, decompress and FTP on OS/390	2 days	Fri 8/26/05	Mon 8/29/05
Define framework for file conversion, compress and loads on Operating	2 days	Tue 8/30/05	Wed 8/31/05
Develop Training Plan	8 days	Wed 8/10/05	Fri 8/19/05
Develop a Training Plans for Users	2 days	Wed 8/10/05	Thu 8/11/05
Develop Training Plans for ITD Staff	5 days	Mon 8/15/05	Fri 8/19/05
Technical Assessment and Detailed Implementation Plan	25.43 days	Mon 7/25/05	Mon 8/29/05
Write Technical Assessment and Detailed Implementation Plan	12 days	Mon 7/25/05	Tue 8/9/05
Document review and revision	4 days	Wed 8/10/05	Mon 8/15/05
Re-evaluate or Revise Project Schedule based on Phase 1 Findings	1.75 days	Tue 8/16/05	Tue 8/23/05
Re-evaluate or Revise Project Scope based on Phase 1 Findings	2 days	Tue 8/23/05	Thu 8/25/05
Re-evaluate or Revise Project Estimate based on Phase 1 Findings	2 days	Thu 8/25/05	Mon 8/29/05
Deliver Technical Assessment and Detailed Implementation Plan	0 days	Mon 8/29/05	Mon 8/29/05
Return on Investment Analysis Report	7 days	Mon 8/1/05	Tue 8/9/05
Gather existing Data	1 day	Mon 8/1/05	Mon 8/1/05
Compile and Analyze Ongoing Costs with Projected Costs	5 days	Tue 8/2/05	Mon 8/8/05
Deliver ROI Document	1 day	Tue 8/9/05	Tue 8/9/05
3rd Party Products and Pricing	19 days?	Wed 7/6/05	Mon 8/1/05
Develop a 3rd Party Recommended Products and Pricing list	19 days?	Wed 7/6/05	Mon 8/1/05
Checkpoint: Phase 2-5 re-evaluation per deliverable results	28.62 days	Mon 8/8/05	Fri 9/16/05
State decision points	0 days	Mon 8/8/05	Mon 8/8/05
Application Life Cycle - Librarian vs. Clearcase	0 days	Mon 8/8/05	Mon 8/8/05
Batch Scheduling Management	0 days	Mon 8/8/05	Mon 8/8/05
COBOL Batch	0 days	Mon 8/8/05	Mon 8/8/05
COBOL Online	0 days	Mon 8/8/05	Mon 8/8/05
Print Management	0 days	Mon 8/8/05	Mon 8/8/05
Syncsort vs. FilePort	0 days	Mon 8/8/05	Mon 8/8/05
DB/2 and Oracle support	0 days	Mon 8/8/05	Mon 8/8/05
VSAM usage	0 days	Mon 8/8/05	Mon 8/8/05
GDG vs. Scripts	0 days	Mon 8/8/05	Mon 8/8/05
System Console Message process	0 days	Mon 8/8/05	Mon 8/8/05
Prepare and review presentation	2.67 days	Mon 8/29/05	Fri 9/9/05
Present findings to State	0.45 days	Fri 9/9/05	Fri 9/9/05
State Review and decision point	5 days	Fri 9/9/05	Fri 9/16/05

Phase 2-5 Migration Services

The Phases 2-5 including Environment preparation, Migration and Testing, Production Deployment, and Support and Turnover will be fully documented in the Technical Assessment and Detailed Implementation plan. Each phase will contain a detailed listing of steps. The Migration and Testing phase along with the Production Deployment phase will be done iteratively with the migration of identified groups of applications. This will allow the State to show migration progress quickly although, the entire migration will be executed over an 18 month window. Software AG and ITD will identify the Groups among the application listing provided by the State, and captured in Appendix A. Statistics provided by the State show the following volume of migration work to be considered during the assessment phase. Analysis of the State Agency shadow system will be performed during the project task that pertains to inventory of the applications to be migrated.

Natural Programs:	5636
Natural Maps, etc.	15677
Cobol Programs:	71
Cobol 2 Programs:	1736
CICS Programs:	494
CICS Maps:	365
Fortran Programs:	124
Assembler Programs:	133
TSO/REXX Programs:	270
Dyl280 Programs:	21
CCI Programs:	15
ASC Programs:	6
DAT Programs:	11
ASS Programs:	2
DBD Programs:	2
ADM Programs:	1
CBL Programs:	1
Unidentified Programs:	4
Total Programs:	24569

To provide a sense of the activity that will be performed in each phase, a list of the steps executed by Software AG in typical migration projects is provided below:

Phase 2 Environment Preparations - Installation of Base Software on
Development/Test/Production

Phase 3 Migration and Testing

- Migration of Adabas Baseline data to target environment
- Migration of Non-Adabas data to target environment
- Migration of Natural Security
- Migration of Predict
- Migration of DDMs from Mainframe
- Migration of Natural Modules from Mainframe
- Migration of Natural Maps from Mainframe
- Natural Code Review
- Batch Conversion
- Printer Configuration
- System Baseline Testing
- Migration of non-Natural objects from mainframe
- Non-Natural code Reviews

Phase 4 Production Deployment

- Operating System Application Test
- Migration of Adabas Production data to Target Environment
- Migration of Non-Adabas data to Prod environment
- Migration of Production Application code to Target Environment
- Migration of Natural Security from test to Prod
- Migration of Predict From test to Prod
- Migration of DDMs from Mainframe
- Migration of Natural Modules from Test to Prod
- Migration of Natural Maps from Test to Prod
- Natural Code Migration
- Batch Migration
- Printer Configuration
- Migration of non-Natural objects from Test to Prod

PHASE 5 PRODUCTION SUPPORT AND TURNOVER - ITD STAFF TRAINING

PRICING

The work described in this Statement of Work will be performed, invoiced, and paid on a Fixed Price basis for a total of \$75,000 for labor. Pricing includes Travel and Living expenses. Upon completion of the Technical Assessment and Detailed Implementation Plan, the State will be invoiced for \$75,000 in accordance with the acceptance criteria and acceptance process defined for deliverables.

Software AG's Fixed Price amount is based on Software AG's receipt of a mutually executed Statement of Work on or before June 30, 2005. Delays by the State in providing inputs and materials as specified herein and in the Schedule could result in delays in the starting or course of completion of the project and may impact the project cost and/or Schedule. In the event the State defaults in the payment of an invoice, Software AG shall have the right to immediately terminate this Statement of Work, stop work and pursue such remedies as may be available.

CHANGE MANAGEMENT

We understand that flexibility in meeting changes in the migration project requirements and the ability to cope with problems is a major concern to the State, given the significance and scope of the migration effort. Software AG, in an effort to meet the needs of the State, will work with your staff to ensure that requested changes are beneficial, to understand and identify whether a scope change has occurred, and to manage the actual changes when they occur. Scope change control must be thoroughly integrated with other control processes (time control, cost control, quality control).

When the State makes a Change Request, the Software AG Project Manager will work with the State's staff to assess and coordinate the change(s) across the entire project, including project scope, project schedule, quality, risk, and finally cost. When changes are likely to affect the project scope, pricing and/or deliverable dates, Software AG's Change Management Procedure is essential to ensure that the interest of both the State and Software AG is maintained. Software AG's standard change management process is described below, but can be adapted as necessary to meet the State's requirements.

For projects with deliverable approval milestones, change control is an important process to contain project scope expansion. For example, any changes to the requirements document will be handled by change control procedures. In order to initiate a change, the State and/or Software AG will complete a Change Request Form as shown in the figure below. This form will specifically address in detail the required change to a particular deliverable, or the new deliverable to be added, and its impact on schedule and/or price (only one request per form). Software AG will provide a cost estimate for the change, addition, or deletion requested. Once both Software AG and the State have approved the form, the existing deliverable list, project schedule, and risk, as appropriate, contract forms will be revised accordingly.

Any changes to the approved requirements would require a change request form to allow Software AG an opportunity to assess if the requirements change would impact the current schedule and budget. This provides the State with control of what scope change is required and approved and allows Software AG to maintain budget, schedule and scope.

Change Request Form

FUNCTIONALITY CHANGE REQUEST (FCR)		Deliverable NO: XX.XX.XX
SUBJECT:		
SUBMITTED BY:		Date:
DEPARTMENT:		
DESCRIPTION OF PROPOSED CHANGE:		
Pick one:(Clarification, Documentation or New Functionality)		
REASON FOR CHANGE: request.		
INVESTIGATION		
ESTIMATED HOURS TO INVESTIGATE:		ACTUAL
		HOURS TO
		INVESTIGATE:
<input type="checkbox"/> ACCEPT FOR INVESTIGATION		Customer:
<input type="checkbox"/> REJECT FOR INVESTIGATION		Date:
<input type="checkbox"/> ACCEPT FOR INVESTIGATION		Project Manager:
<input type="checkbox"/> REJECT FOR INVESTIGATION		Date:
REASON FOR REJECTION (Add attachments if necessary)		
IMPLEMENTATION		
DESCRIPTION AND IMPACT OF CHANGE TO BE IMPLEMENTED:		
1)		
FIXED PRICE TO IMPLEMENT: N/A		
<input type="checkbox"/> ACCEPT FOR IMPLEMENTATION (State)		State Project Mgr.:
		Date:
		Signature:
<input type="checkbox"/> ACCEPT FOR IMPLEMENTATION Software AG		Software AG Project Manager:
		Date:
		Signature:
<input type="checkbox"/> *ACCEPTED Software AG Project Director		Project Director:
		Date:
		Signature:

*The Software AG National Delivery Manager will be notified for signature approval if this Change Request constitutes any additional costs to the project.

APPENDIX A – APPLICATION LISTING

The application list provided in this appendix has been taken from spreadsheets provided by the State. This list is considered to be the complete and final list of applications to consider during the Phase 1 Assessment.

Application	Complexity 1=simple 2=medium 3=complex	COB	NAT	LN	ADA	VSM
AG1 - Vendor listing	1	X	X		X	X
LE1 - Uniform Crime reporting	1	X				X
LE2 - Jail Population data	1	X				X
BF1 - Dept. of Financial Institutions	1	X				
CP1 - Classification	1	X	X		X	
ASSIST	3	X	X	X	X	
CCWIPS	2	X	X		X	
Child Abuse and Neglect	1	X	X			
Child Care Assistance	1	X	X			X
Child Support Employer EFT-Employers	1		X		X	
Child Support Employer EFT-Administrative	1		X		X	
Child Support Case Inquiry	2		X		X	
Child Support Case Inquiry-Admin	1		X		X	
Child Support Case Registration	1					
Children's Special Health Services	2					
Contracts	3	X	X			
Cost Allocation	1	X				X
Chips	2	X	X		X	
Day Care	1	X				X
FACSES	3	X	X		X	
Low Income Heating Assist	1	X	X			
Personnel Merit System	1	X	X			
PMIS	1	X	X			
Salary Projection	1	X	X			
TECS	3	X	X		X	X
VISION	3	X	X	X	X	X
Voc Rehab	2	X	X			X
Cars	1	X				
CRS - Crash Reporting System	1	X			X	

Application	Complexity 1=simple 2=medium 3=complex	COB	NAT	LN	ADA	VSM
DL1 - Financial Resp. Fund	2	X	X		X	X
DL3 - Drivers License	3	X	X		X	X
Drivers License Abstracts	2				x	
DTUE - DOT Upload	2	X				
HD3T- Time and Attendance	2					
HD6 - Automated Requisitions	1	X	X		X	
HR1 - Human Resources	1	X	X		X	
HW2M Memis and HW2P Permac	2	X				X
HW25 - Injury Statistics System	2	X	X		X	
HW4 & HW44 -Personnel	2	X	X		X	X
HW86 - Bridge Inventory	2	X	X			X
MP1 - ND Motor Pool	2	X	X		X	
MP2 - ND State Fleet	2	X	X		X	
Pacer and DT38 (Subsystems)	2	X				
Plans and Proposals	2					
RIMS - Roadway Information Management System	2		X			
TDEA - Traffic Data	1	X				
VRTS - Vehicle Registration	1	X				
PI2-School Personnel	2	X	X		X	
PI34-35-Fall Reports	1	X	X		X	
PI38-39-Foundation Aid	1	X	X		X	
PI5-Bill Status	1	X				X
PI26-27-Teacher Licensure	1	X	X		X	
GF2-Outdoors Magazine	1	X	X		X	
GF3-Web Inquiry	1		X		X	
GF41-Sportsman Survey	1	X				
GF4-Hunter/Boater Safety	1	X	X		X	
GF6-Boat Registration	1	X	X		X	
GF7-1099	1	X				
GF8-Lottery Application System	2	X	X		X	
Licensing	1		X		X	
Lottery/Inquiry	1	X	X		X	
GR1 - Grafton & San Haven billing	1	X			X	

Application	Complexity 1=simple 2=medium 3=complex	COB	NAT	LN	ADA	VSM
GR3 - PP/ER Compare	1					
GS1 - Industrial Commission	1		X		X	
GS9 - Industrial Commission	1	X	X		X	X
HE1-Student Financial Assistance	1	X	X			X
HL2 - Vital Statistics	3	X	X		X	
HP - Citations/Contracts	3	X			X	
HP3 - Fixed Assets Inventory	1	X				
HP30 - Accidents & Violations	3		X		X	
HP40 - Permit Renewal System	2	X	X		X	
HP5 - Daily Activity Sys	3	X	X		X	
HP50 - Monthly Work Schedule	2					
HP6 - Receipt Inventory System	2	X	X		X	X
RMS	1					
IC1 - Agent/Agent Licensing	1	X				
IC7 - NAIC PIN Processing	1	X	X			
CD16-Change Management	1	X	X		X	
CD18-Stock Status	1		X		X	
CD19-Employee Training	1		X		X	
CD1-Maintain City File	1		X		X	
CD30-Label System	1	X	X			
CD33 - TSO Processes	1					
CD91-Problem Log	1		X		X	
CD9-Maintain Natural CICS Trans.	1		X		X	
CD9-Miscellaneous	1	X	X			
CD9-Program Inventory	1		X		X	
CD99-DB Called pgms for Natl	1	X				
Work Management System	1		X			
Data Processing Billing System	3	X	X		X	
Micrographics Billing System	2	X	X		X	
Micrographics Index System	1	X	X		X	
RM1 - Records Management	1		X		X	
RM3 - Forms Management	1		X		X	
Telecommunications Billing System	2	X	X		X	
Time Entry System	2	X	X		X	
JC1 - Judicial Court	1	X			X	

Application	Complexity 1=simple 2=medium 3=complex	COB	NAT	LN	ADA	VSM
JC2 - Juvenile Court	1	X				
JC3 - Supreme Court Budget	1	X	X		X	X
JC6 - Supreme Court District/County Case reporting	1	X	X		X	X
JS2 - Job Service Payroll	1	X	X		X	X
LD2 - Well Royalties Sys	2	X	X		X	
LD3 - Oil/Gas Lease	1		X		X	
LD4 - Oil Tax	1		X		X	
ER3 - Group Insurance	1	X	X		X	X
ER4 - Utility programs	1		X		X	
ER5 - Flexcomp	1	X	X		X	
ER6 - Retirement On-line	2		X		X	
ER66 - Deferred Comp	2	X	X		X	
ER7 - Retirement Batch	2	X	X		X	X
ER8 - Checkbook	1	X	X		X	
ER9 - Web/E-Gov't	1	X	X		X	
Online Services	1		X		X	
CS2 - Central Services	3	X	X		X	X
MB9 - ERP	2	X				
PR1 - Parks & Recreation	1		X		X	X
PR3 - Parks & Recreation	1	X				
PS1-PS3 Public Service Comm.	1	X				X
PS9 - Historical Information Sys	3		X		X	
RC2 - Inquiry DL	2	X				
SA1 - Oil & Gas leases	1		X		X	
SA2 - Leave audit	1	X	X		X	X
SC4-Central Index System	3	X	X		X	
SC6-Web Apps	1		X			
ST2 - Oil & Gas distribution	1	X	X		X	X
ST4 - Outstanding checks	1	X	X		X	

Application	Complexity 1=simple 2=medium 3=complex	COB	NAT	LN	ADA	VSM
ST5 - Tax distribution	1		X		X	X
ST53 - Estate tax distribution	1		X		X	X
WA30 - Water Commission	1	X	X		X	
WK9-Statewide System	1					